

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1553	(alpha adj amylase\$1) same bacillus same (mutant\$1 or variant\$1)	US-PGPUB; USPAT	ADJ	OFF	2007/02/21 10:47
L2	167205	(residue\$1 or position\$1 or amino acid\$1 or muta\$6) same ("168" or "169" or "170" or "171" or "172" or "173" or "174")	US-PGPUB; USPAT	ADJ	OFF	2007/02/21 10:48
L3	1237	1 and 2	US-PGPUB; USPAT	ADJ	OFF	2007/02/21 10:49
L4	287	3 not shiroza	US-PGPUB; USPAT	ADJ	OFF	2007/02/21 10:49

11/16/00

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:57:54 ON 21 FEB 2007

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 10:58:10 ON 21 FEB 2007
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s alpha(w)amylase# and bacillus and (muta? or variant#)

FILE 'MEDLINE'

579756 ALPHA

22594 AMYLASE#

5272 ALPHA(W)AMYLASE#

53988 BACILLUS

545303 MUTA?

120162 VARIANT#

L1 213 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'SCISEARCH'

827851 ALPHA

19317 AMYLASE#

8847 ALPHA(W)AMYLASE#

56297 BACILLUS

531007 MUTA?

134849 VARIANT#

L2 336 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'LIFESCI'

179124 ALPHA

4862 AMYLASE#

2940 ALPHA(W)AMYLASE#

28472 BACILLUS

240791 MUTA?

40738 VARIANT#

L3 134 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'BIOTECHDS'

32861 ALPHA

6253 AMYLASE#

3971 ALPHA(W)AMYLASE#

19288 BACILLUS

48660 MUTA?

16770 VARIANT#

L4 290 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'BIOSIS'

726525 ALPHA

29897 AMYLASE#

10851 ALPHA(W)AMYLASE#

74519 BACILLUS

589670 MUTA?

122080 VARIANT#

L5 265 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'EMBASE'

648979 ALPHA

17102 AMYLASE#

3841 ALPHA(W)AMYLASE#

39794 BACILLUS
459035 MUTA?
105346 VARIANT#
L6 147 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'HCAPLUS'

1667631 ALPHA
48467 AMYLASE#
20586 ALPHA(W) AMYLASE#
94692 BACILLUS
555586 MUTA?
119653 VARIANT#
L7 527 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'NTIS'

29253 ALPHA
167 AMYLASE#
63 ALPHA(W) AMYLASE#
1803 BACILLUS
10290 MUTA?
4776 VARIANT#
L8 1 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'ESBIOBASE'

255425 ALPHA
5294 AMYLASE#
2565 ALPHA(W) AMYLASE#
19312 BACILLUS
286317 MUTA?
52458 VARIANT#
L9 95 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'BIOTECHNO'

189431 ALPHA
4194 AMYLASE#
2130 ALPHA(W) AMYLASE#
19958 BACILLUS
242571 MUTA?
41198 VARIANT#
L10 108 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'WPIDS'

195259 ALPHA
8613 AMYLASE#
3117 ALPHA(W) AMYLASE#
16771 BACILLUS
35381 MUTA?
32200 VARIANT#
L11 150 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

TOTAL FOR ALL FILES

L12 2266 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

=> s (168 or 169 or 170 or 171 or 172 or 173 or 174) (10a) (residue# or position# or amino acid# or muta?)

FILE 'MEDLINE'

16027 168
12615 169
24119 170
12569 171
13021 172
12372 173
14250 174
207138 RESIDUE#
235574 POSITION#

641168 AMINO
1673685 ACID#
577018 AMINO ACID#
 (AMINO(W)ACID#)
545303 MUTA?
L13 4086 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
 OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'SCISEARCH'

13309 168
9929 169
27122 170
9970 171
10576 172
10371 173
10410 174
219871 RESIDUE#
330242 POSITION#
406614 AMINO
1386177 ACID#
316798 AMINO ACID#
 (AMINO(W)ACID#)
531007 MUTA?
L14 3703 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
 OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'LIFESCI'

2894 168
1870 169
5159 170
1748 171
1905 172
1662 173
2026 174
94710 RESIDUE#
70188 POSITION#
174652 "AMINO"
352865 ACID#
150725 AMINO ACID#
 ("AMINO" (W)ACID#)
240791 MUTA?
L15 2313 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
 OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'BIOTECHDS'

1141 168
579 169
1598 170
615 171
639 172
581 173
670 174
25984 RESIDUE#
15818 POSITION#
71259 AMINO
158837 ACID#
66316 AMINO ACID#
 (AMINO(W)ACID#)
48660 MUTA?
L16 1391 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
 OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'BIOSIS'

13764 168
9673 169

22748 170
 9181 171
 10071 172
 9251 173
 11756 174
 246083 RESIDUE#
 241314 POSITION#
 543220 AMINO
 1453725 ACID#
 414155 AMINO ACID#
 (AMINO(W)ACID#)
 589670 MUTA?
 L17 4412 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
 OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'EMBASE'

11065 168
 8855 169
 19013 170
 8098 171
 8590 172
 7964 173
 8884 174
 181675 RESIDUE#
 209851 POSITION#
 446494 "AMINO"
 1499115 ACID#
 336701 AMINO ACID#
 ("AMINO" (W) ACID#)
 459035 MUTA?
 L18 3570 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
 OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'HCAPLUS'

42195 168
 28749 169
 130489 170
 27882 171
 33321 172
 29633 173
 32239 174
 670839 RESIDUE#
 556377 POSITION#
 1106319 AMINO
 4819438 ACID#
 704368 AMINO ACID#
 (AMINO(W)ACID#)
 555586 MUTA?
 L19 7608 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
 OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'NTIS'

1320 168
 949 169
 3259 170
 957 171
 1073 172
 1266 173
 1042 174
 11365 RESIDUE#
 51965 POSITION#
 7047 AMINO
 55897 ACID#
 5175 AMINO ACID#
 (AMINO(W)ACID#)

10290 MUTA?
L20 65 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'ESBIOBASE'

5034 168
3620 169
8344 170
3473 171
3793 172
3485 173
3903 174
115522 RESIDUE#
86210 POSITION#
190712 AMINO
429941 ACID#
167034 AMINO ACID#
(AMINO(W)ACID#)
286317 MUTA?

L21 2401 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'BIOTECHNO'

2509 168
1821 169
4814 170
1689 171
1867 172
1729 173
1973 174
96204 RESIDUE#
55352 POSITION#
204625 AMINO
371908 ACID#
173749 AMINO ACID#
(AMINO(W)ACID#)
242571 MUTA?

L22 2629 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
OR POSITION# OR AMINO ACID# OR MUTA?)

FILE 'WPIDS'

7173 168
2687 169
50100 170
5925 171
7301 172
3790 173
5502 174
204821 RESIDUE#
1528538 POSITION#
281507 AMINO
1119020 ACID#
100966 AMINO ACID#
(AMINO(W)ACID#)
35381 MUTA?

L23 2637 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
OR POSITION# OR AMINO ACID# OR MUTA?)

TOTAL FOR ALL FILES

L24 34815 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174) (10A) (RESIDUE#
OR POSITION# OR AMINO ACID# OR MUTA?)

=> s l12 and l24

FILE 'MEDLINE'

L25 4 L1 AND L13

FILE 'SCISEARCH'
L26 4 L2 AND L14

FILE 'LIFESCI'
L27 2 L3 AND L15

FILE 'BIOTECHDS'
L28 7 L4 AND L16

FILE 'BIOSIS'
L29 2 L5 AND L17

FILE 'EMBASE'
L30 2 L6 AND L18

FILE 'HCAPLUS'
L31 9 L7 AND L19

FILE 'NTIS'
L32 0 L8 AND L20

FILE 'ESBIOBASE'
L33 0 L9 AND L21

FILE 'BIOTECHNO'
L34 2 L10 AND L22

FILE 'WPIDS'
L35 5 L11 AND L23

TOTAL FOR ALL FILES
L36 37 L12 AND L24

=> dup rem l36
PROCESSING COMPLETED FOR L36
L37 21 DUP REM L36 (16 DUPLICATES REMOVED)

=> d tot l35

L35 ANSWER 1 OF 5 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Alpha-amylase variants especially for use in
detergents or cleaning agents have a surface asparagine or glutamine
residue exchanged to impart improved solvent stability
PI DE 102004047777 A1 20060413 (200630)* DE 54[2]
WO 2006037484 A2 20060413 (200630) DE
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT
KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ
UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE
DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KM KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG
NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR
TT TZ UA UG US UZ VC VN YU ZA ZM ZW
IN BESSLER C; MAURER K; MAURER K H; WIELAND S

L35 ANSWER 2 OF 5 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Modulating Sec-dependent protein secretion, comprises introducing a
spoIIIJ or yqjG gene linked to an inducible promoter into a
Bacillus cell and modulating the expression of the spoIIIJ or yqjG
gene
PI WO 2003060068 A2 20030724 (200356)* EN 50[8] C12N000-00
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU

MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
ZM ZW

AU 2002353111 A1 20030730 (200421) EN
EP 1472342 A2 20041103 (200472) EN C12N005-02
R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC
MK NL PT RO SE SI SK TR
US 20050170511 A1 20050804 (200552) EN C12P021-06
AU 2002353111 A8 20051020 (200615) EN C12N005-02
IN BRON S; TJALSMA H; VAN DIJL J M

L35 ANSWER 3 OF 5 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Variant of parent Termamyl-like alpha amylase
, useful in detergent compositions, for starch liquefaction, ethanol
production, washing and/or dish washing, and textile desizing
PI WO 2002010355 A2 20020207 (200232)* EN 90[1] C12N009-00
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
AU 2001078415 A 20020213 (200238) EN
US 20020155574 A1 20021024 (200273) EN C12N009-28
EP 1370648 A2 20031217 (200402) EN C12N009-28
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
JP 2004508815 W 20040325 (200422) JA 146 C12N015-09
CN 1529752 A 20040915 (200501) ZH C12N009-28
US 20050250663 A1 20051110 (200574) EN C12N009-28
AU 2001278415 A8 20051013 (200611) EN C12N009-28
IN ANDERSEN C; FUGLSANG C C; KJAERULFF S; KJARULFF S; THISTED T

L35 ANSWER 4 OF 5 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI New nucleic acid encoding lipid acyl hydrolase proteins having pesticidal
activity, derived from rice, soybean, or wheat, for controlling insect
infestation and pathogenic infection in transgenic plants
PI WO 2001036468 A2 20010525 (200137)* EN 89[9] C07K014-00
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2001016129 A 20010530 (200152) EN
IN CIGAN A L

L35 ANSWER 5 OF 5 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Alpha-amylase variants and methods of
production - have altered properties such as calcium dependency,
substrate binding and stability
PI WO 9623874 A1 19960808 (199637)* EN 171[10]
RW: AT BE CH DE DK EA ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE
SZ UG
W: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS
JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT
RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN
AU 9644834 A 19960821 (199648) EN
BR 9607013 A 19971028 (199750) PT
EP 808363 A1 19971126 (199801) EN [0]

	R:	AT	BE	CH	DE	DK	ES	FR	GB	GR	IE	IT	LI	LU	NL	PT	SE
MX	9705906				A1	19971001	(199901)	ES									C12N009-28
JP	11500003				W	19990106	(199911)	JA	165								C12N015-09
KR	98701901				A	19980625	(199924)	KO									C12N009-28
US	5989169				A	19991123	(200002)	EN									
US	6022724				A	20000208	(200014)	EN									C12N009-28
US	6440716				B1	20020827	(200259)	EN									
CN	1172501				A	19980204	(200331)	ZH									
US	20030170769				A1	20030911	(200367)	EN									
US	20050019886				A1	20050127	(200509)	EN									
US	20050170487				A1	20050804	(200552)	EN									
KR	2005046778				A	20050518	(200641)	KO									
US	7115409				B1	20061003	(200665)	EN									
KR	511499				B	20051221	(200705)	KO									
US	7163816				B2	20070116	(200706)	EN									

IN BISGARD F H; BISGARD-FRANTZEN H; BISGARDFRANTZEN H; BORCHERT T; BORCHERT T
V; SVENDSEN A; BISGAARD-FRANTZEN H

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

61.05

61.26

STN INTERNATIONAL LOGOFF AT 11:07:33 ON 21 FEB 2007